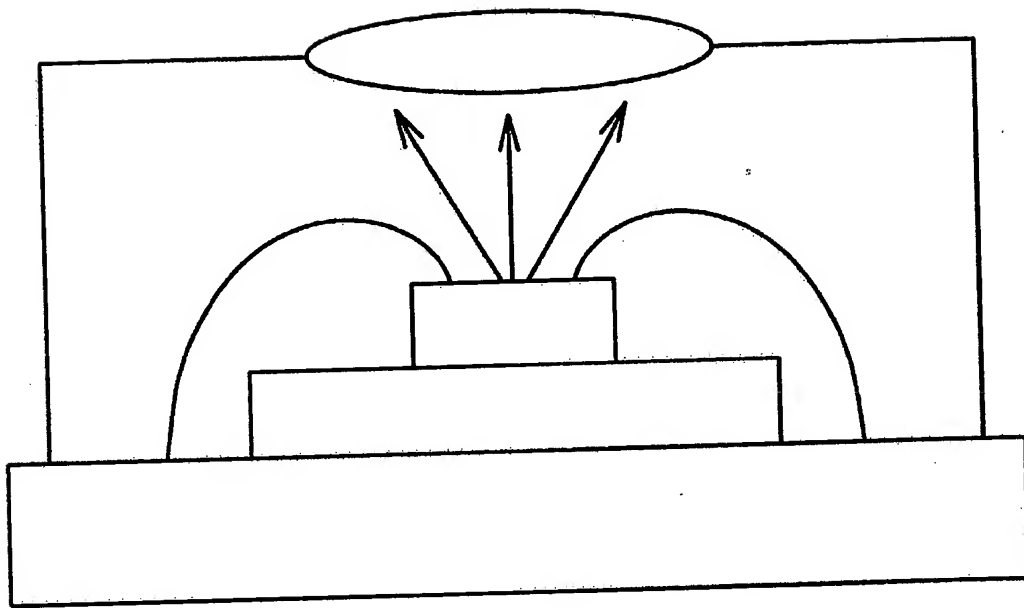


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***FIG. 1***

**Prior Art**

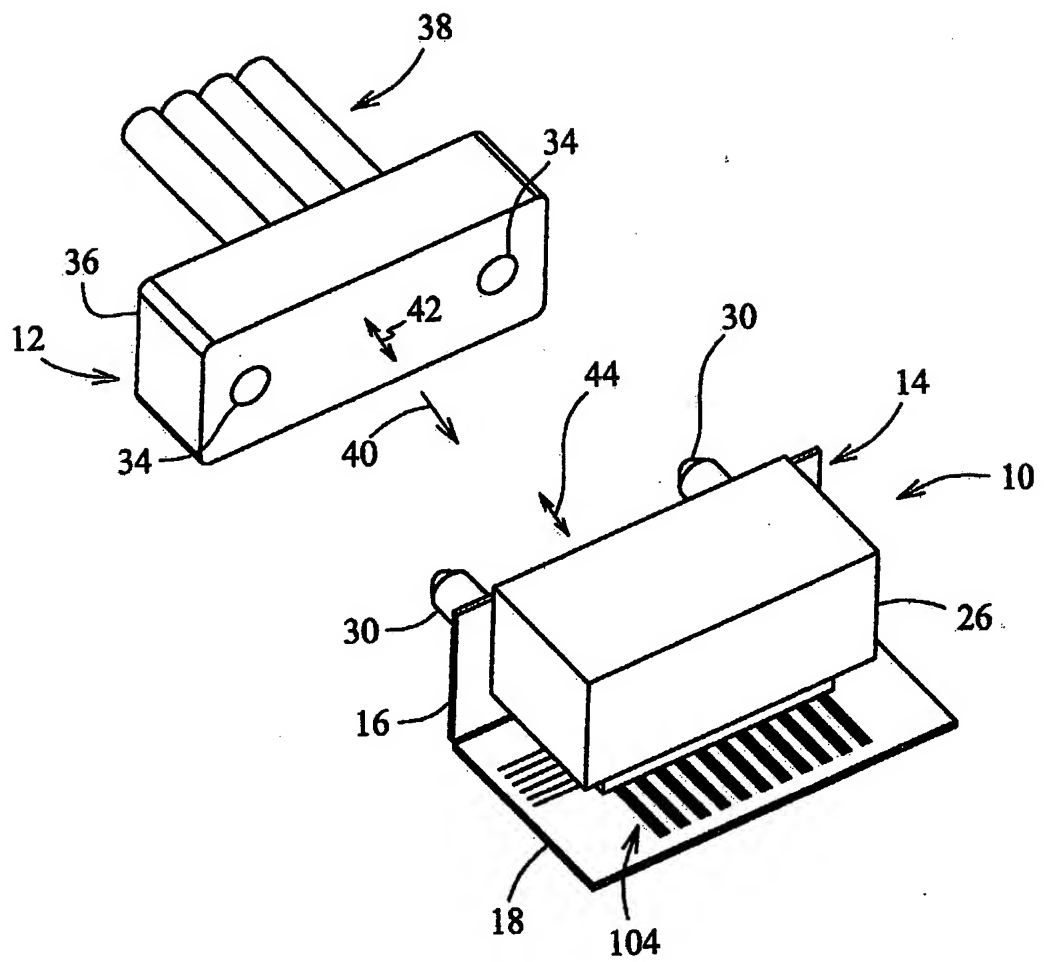
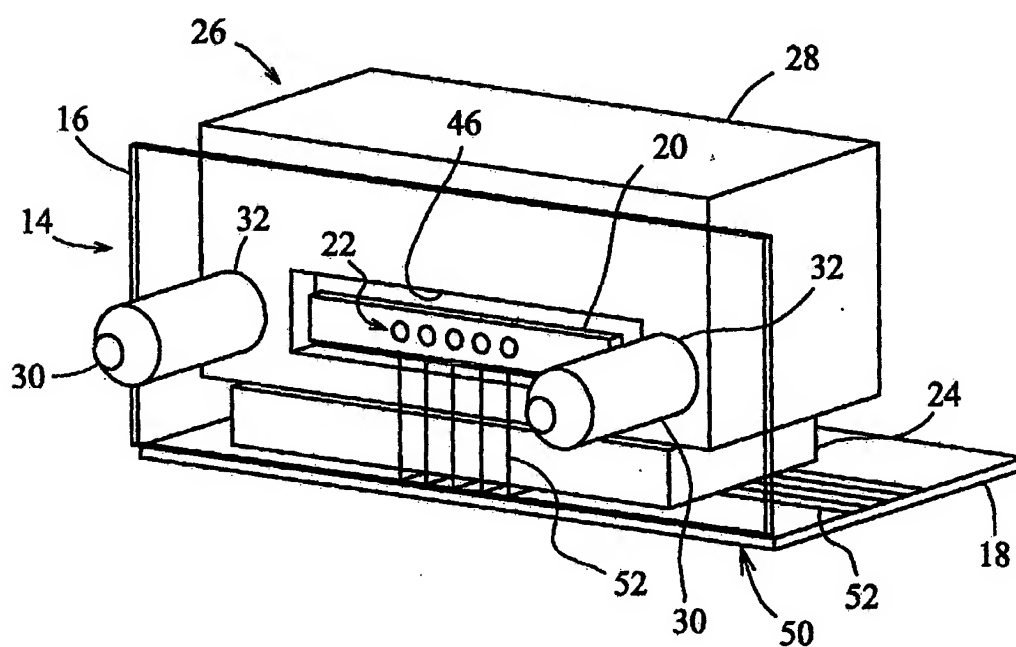


FIG. 2

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**FIG. 3**

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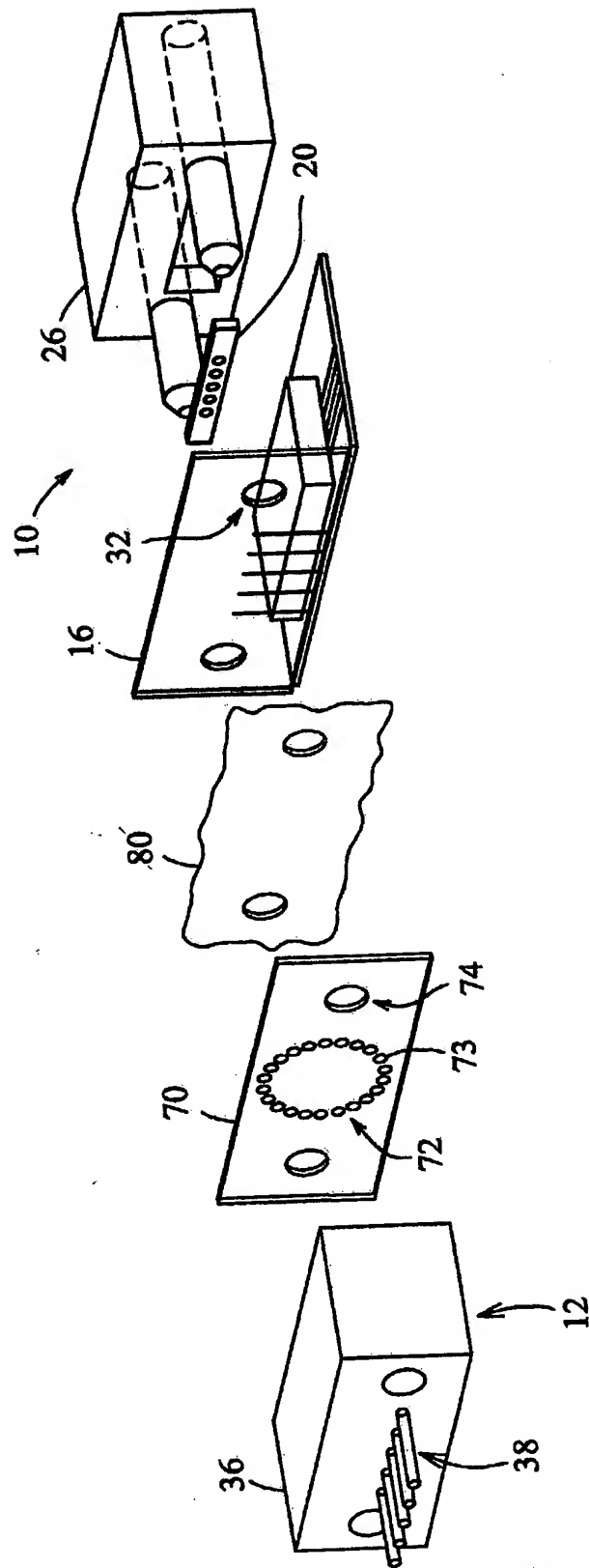
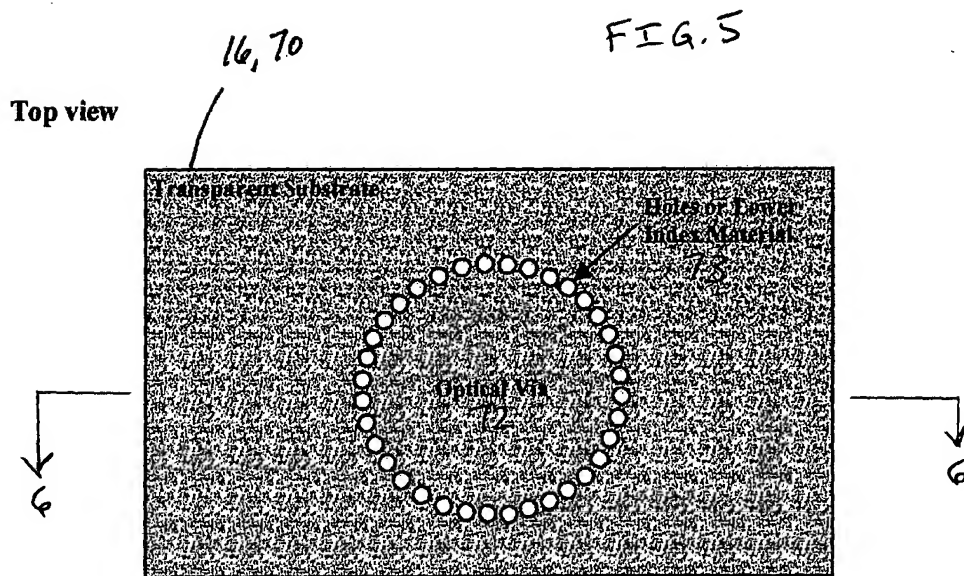


FIG. 4



Cut away side view

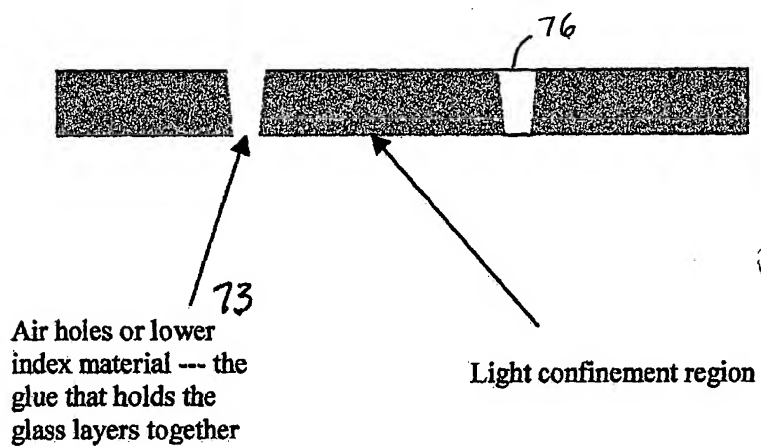


FIG. 6

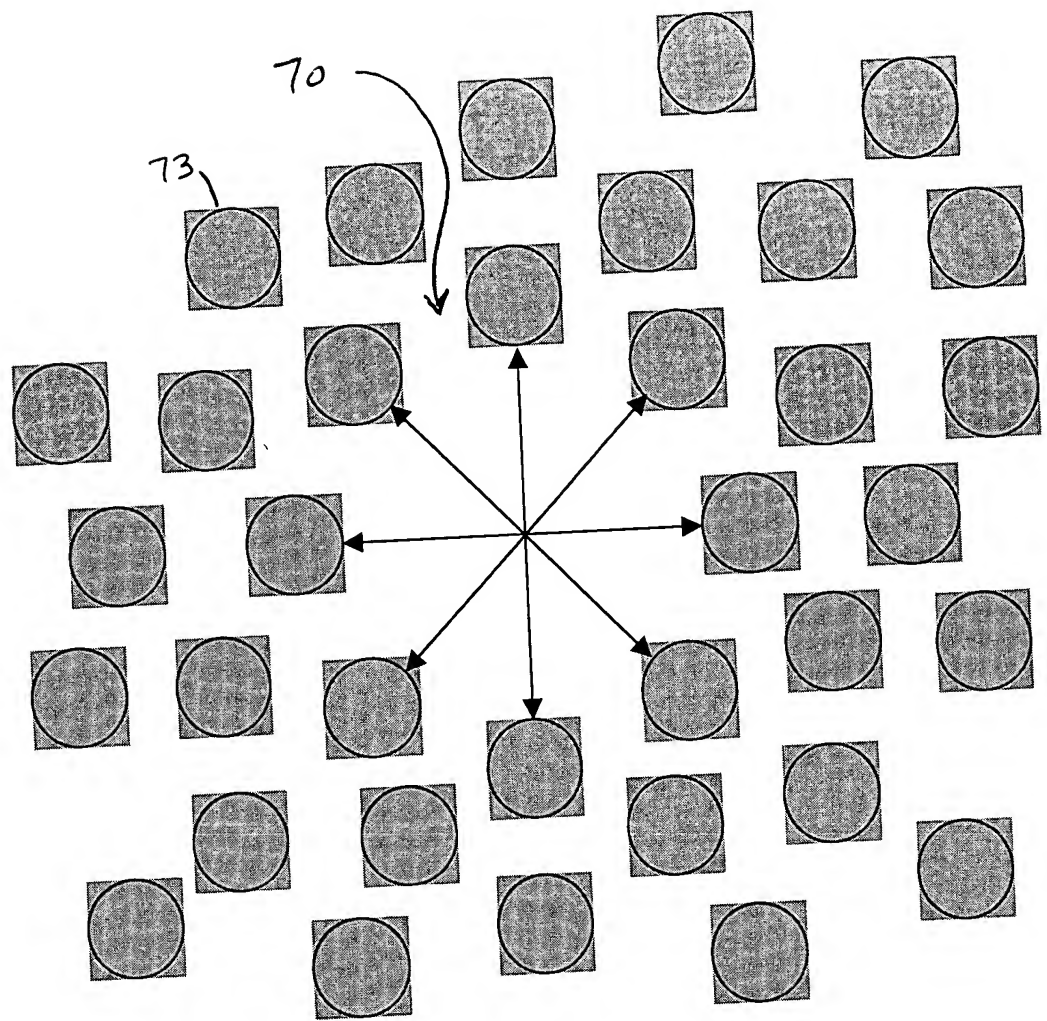


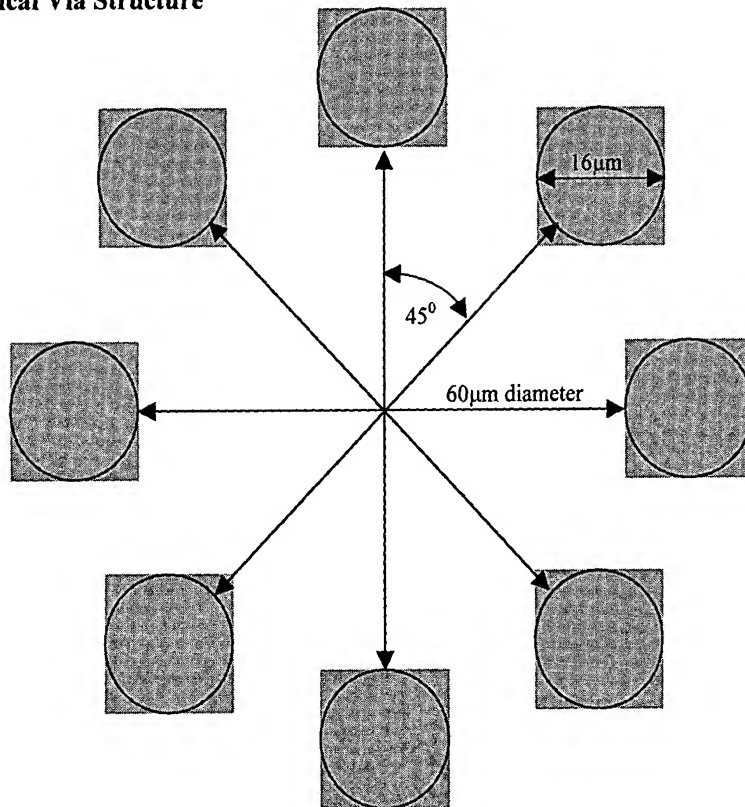
FIG. 7

**Corona Optical Systems**  
**2-26-02**

**Optical Via Rev 0**

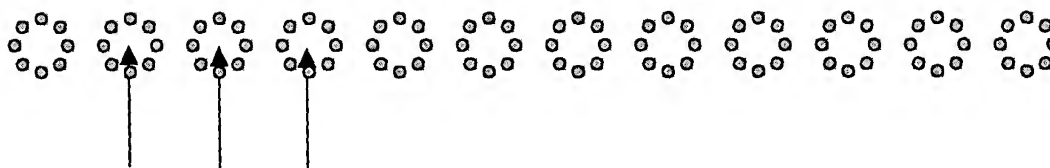
The eight dark circles will be holes that are placed in the glass surface. The diameter of each of the holes is  $16\mu\text{m}$  at the surface of the glass. These eight holes will make up an optical via that will be centered over each of the Rx device's optical ports. A mask could be made that would produce all twelve vias at the same time or each via could be made individually.

**Optical Via Structure**



70  
FIG. 8

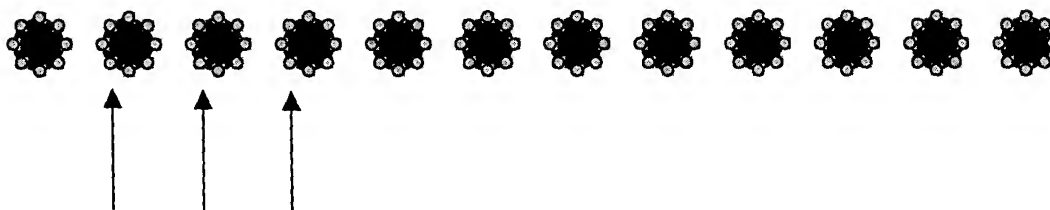
Array of twelve vias centered over each optical port



12 vias on 250 $\mu$ m centers, vias will be ~30 $\mu$ m to 50 $\mu$ m deep in glass

FIG. 9

Array of twelve vias centered over each optical port



12 blue circles show the PD 70 $\mu$ m aperture

FIG. 10